APPENDIX B MANDATORY HEALTH EFFECT LANGUAGE

- (1) Trichloroethylene is a health concern at certain levels of exposure. This chemical is a common metal cleaning and dry cleaning fluid. It generally gets into drinking water by improper waste disposal. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed at lower levels over long periods of time. The drinking water standard for trichloroethylene has been set at 0.005 parts per million (ppm) to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe.
- (2) Carbon tetrachloride is a health concern at certain levels of exposure. This chemical was once a popular household cleaning fluid. It generally gets into drinking water by improper waste disposal. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed at lower levels over long periods of time. The drinking water standard for carbon tetrachloride has been set at 0.005 parts per million (ppm) to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe.
- (3) 1,2-Dichloroethane is a health concern at certain levels of exposure. This chemical is used as a cleaning fluid for fats, oils, waxes, and resins. It generally gets into drinking water from improper waste disposal. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed at lower levels over long periods of time. The drinking water standard for 1,2-dichloroethane has been set at 0.005 parts per million (ppm) to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe.
- (4) Vinyl chloride is a health concern at certain levels of exposure. This chemical is used in industry and is found in drinking w ater as a result of the breakdown of related solvents. The solvents are used as cleaners and degreasers of metals and generally get into drinking w ater by improper w aste disposal. This chemical has been associated with significantly increased risks of cancer among certain industrial w orkers w ho w ere exposed to relatively large amounts of this chemical during their w orking careers. This chemical has also been shown to cause cancer in laboratory animals w hen the animals are exposed at high levels over their lifetimes. Chemicals that cause increased risk of cancer among exposed industrial w orkers and in laboratory animals also may increase the risk of cancer in humans w ho are exposed at low er levels over long periods of time. The drinking w ater standard for vinyl chloride has been set at 0.002 parts per million (ppm) to reduce the risk of cancer or other adverse health effects w hich have been observed in humans and laboratory animals. Drinking w ater w hich meets this standard is associated w ith little to none of this risk and should be considered safe.
- (5) Benzene is a health concern at certain levels of exposure. This chemical is used as a solvent and degreaser of metals. It is also a major component of gasoline. Drinking water contamination generally results from leaking underground gasoline and petroleum tanks or improper waste disposal. This chemical has been associated with significantly increased risks of leukemia among certain industrial workers who were exposed to relatively large amounts of this chemical during their working careers. This chemical has also been shown to cause cancer in laboratory animals when the animals are exposed at high levels over their lifetimes. Chemicals that cause increased risk of cancer among exposed industrial workers and in laboratory animals also may increase the risk of cancer in humans who are exposed at lower levels over long periods of time. The drinking water standard for benzene has been set at 0.005 parts per million (ppm) to reduce the risk of cancer or other adverse health effects which have been observed in humans and laboratory animals. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe.
- (6) 1,1-Dichloroethylene is a health concern at certain levels of exposure. This chemical is used in industry and is found in drinking water as a result of the breakdown of related solvents. The solvents are used as cleaners and degreasers of metals and generally get into drinking water by improper waste disposal. This chemical has been shown to cause liver and kidney damage in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals which cause adverse effects in laboratory animals also may cause adverse health effects in humans who are exposed at lower levels over long periods of time. The drinking water standard for 1,1-dichloroethylene has been set at 0.007 parts per million (ppm) to reduce the risk of these adverse health effects which have been observed in laboratory animals. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe.
- (7) Para-dichlorobenzene is a health concern at certain levels of exposure. This chemical is a component of deodorizers, moth balls, and pesticides. It generally gets into drinking water by improper waste disposal. This chemical has been shown to cause liver and kidney damage in laboratory animals such as rats and mice when the animals are exposed to high levels over their lifetimes. Chemicals which cause adverse effects in laboratory animals also may cause adverse health effects in humans who are exposed at lower levels over long periods of time. The drinking water standard for para-dichlorobenzene has been set at 0.075 parts per million (ppm) to reduce the

risk of these adverse health effects which have been observed in laboratory animals. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe.

- (8) 1,1,1-Trichloroethane is a health concern at certain levels of exposure. This chemical is used as a cleaner and degreaser of metals. It generally gets into drinking water by improper waste disposal. This chemical has been shown to damage the liver, nervous system, and circulatory system of laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Some industrial workers who were exposed to relatively large amounts of this chemical during their working careers also suffered damage to the liver, nervous system, and circulatory system. Chemicals which cause adverse effects among exposed industrial workers and in laboratory animals also may cause adverse health effects in humans who are exposed at lower levels over long periods of time. The drinking water standard for 1,1,1-trichloroethane has been set at 0.2 parts per million (ppm) to protect against the risk of these adverse health effects which have been observed in humans and laboratory animals. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe.
- (9) Fluoride. The drinking water in your community has a fluoride concentration of PWS shall insert the compliance result which triggered notification under this part milligrams per liter (mg/L). The Japan Environmental Governing Standards require that fluoride, which occurs naturally in your water supply, not exceed a concentration of 4.0 mg/L in drinking water. This is an enforceable standard called a Maximum Contaminant Level (MCL), and it has been established to protect the public health. Exposure to drinking water levels above 4.0 mg/L for many years may result in some cases of crippling skeletal fluorosis, which is a serious bone disorder.

The JEGS require that we notify you when monitoring indicates that the fluoride in your drinking water exceeds 2.0 mg/L. This is intended to alert families about dental problems that might affect children under nine years of age. The fluoride concentration of your water exceeds this federal guideline.

Fluoride in children's drinking water at levels of approximately 1 mg/L reduces the number of dental cavities. However, some children exposed to levels of fluoride greater than about 2.0 mg/L may develop dental fluorosis. Dental fluorosis, in its moderate and severe forms, is a brown staining and/or pitting of the permanent teeth.

Because dental fluorosis occurs only when developing teeth (before they erupt from the gums) are exposed to elevated fluoride levels, households without children are not expected to be affected by this level of fluoride. Families with children under the age of nine are encouraged to seek other sources of drinking water for their children to avoid the possibility of staining and pitting.

Your water supplier can lower the concentration of fluoride in your water so that you will still receive the benefits of cavity prevention while the possibility of stained and pitted teeth is minimized. Removal of fluoride may increase your water costs. Treatment systems are also commercially available for home use. Information on such systems is available at the address given below. Low fluoride bottled drinking water that would meet all standards is also commercially available.

For further information, contact systems shall insert name and phone number of PWS POC at your water system. PWS shall insert the name, address, and telephone number of a contact person at the PWS.

- (10) Microbiological contaminants (for use when there is a violation of the treatment technique requirements for filtration and disinfection in Criteria 2.h.). The presence of microbiological contaminants are a health concern at certain levels of exposure. If water is inadequately treated, microbiological contaminants in that water may cause disease. Disease symptoms may include diarrhea, cramps, nausea, and possibly jaundice, and any associated headaches and fatigue. These symptoms, however, are not just associated with disease-causing organisms in drinking water, but also may be caused by a number of factors other than your drinking water. JEGS has set enforceable requirements for treating drinking water to reduce the risk of these adverse health effects. Treatment such as filtering and disinfecting the water removes or destroys microbiological contaminants. Drinking water which is treated to meet JEGS requirements is associated with little to none of this risk and should be considered safe.
- (11) Total coliforms. The presence of total coliforms is a possible health concern. Total coliforms are common in the environment and are generally not harmful themselves. The presence of these bacteria in drinking water, how ever, generally is a result of a problem with water treatment or the pipes which distribute the water, and indicates that the water may be contaminated with organisms that can cause disease. Disease symptoms may include diarrhea, cramps, nausea, and possibly jaundice, and any associated headaches and fatigue. These symptoms, how ever, are not just associated with disease-causing organisms in drinking water, but also may be caused by a number of factors other than your drinking water. The drinking water standard for total coliforms has been set to reduce the risk of these adverse health effects. Under this standard, no more than 5.0 percent of the samples collected during a month can contain these bacteria, except that systems collecting fewer than 40 samples/month that have one total coliform-positive sample per month are not violating the standard. Drinking water which meets this standard is usually not associated with a health risk from disease-causing bacteria and should be considered safe.
- (12) Fecal Coliforms/E. coli. The presence of fecal coliforms or E. coli is a serious health concern. Fecal coliforms and E. coli are generally not harmful themselves, but their presence in drinking water is serious because they usually are associated with sew age or

animal w astes. The presence of these bacteria in drinking w ater is generally a result of a problem w ith w ater treatment or the pipes w hich distribute the w ater, and indicates that the w ater may be contaminated w ith organisms that can cause disease. Disease symptoms may include diarrhea, cramps, nausea, and possibly jaundice, and associated headaches and fatigue. These symptoms, how ever, are not just associated w ith disease-causing organisms in drinking w ater, but also may be caused by a number of factors other than your drinking w ater. The drinking w ater standard for fecal coliforms and E. coli has been set to reduce the risk of these adverse health effects. Under this standard all drinking w ater samples must be free of these bacteria. Drinking w ater w hich meets this standard is associated w ith little or none of this risk and should be considered safe.

- (13) Lead is a health concern at certain exposure levels. Materials that contain lead have frequently been used in the construction of water supply distribution systems, and plumbing systems in private homes and other buildings. The most commonly found materials include service lines, pipes, brass and bronze fixtures, and solders and fluxes. Lead in these materials can contaminate drinking water as a result of the corrosion that takes place when water comes into contact with those materials. Lead can cause a variety of adverse health effects in humans. At relatively low levels of exposure, these effects may include interference with red blood cell chemistry, delays in normal physical and mental development in babies and young children, slight deficits in the attention span, hearing, and learning abilities of children, and slight increases in the blood pressure of some adults. All public water systems should optimize corrosion control to minimize lead contamination resulting from the corrosion of plumbing materials. Public water systems serving 50,000 people or few er that have lead concentrations below 15 parts per billion (ppb) in more than 90% of tap water samples have optimized their corrosion control treatment. Any water system that exceeds the action level must also monitor their source water to determine whether treatment to remove lead in source water is needed. Any water system that continues to exceed the action level after installation of corrosion control and/or source water treatment must eventually replace all lead service lines contributing in excess of 15 (ppb) of lead to drinking water. Any water system that exceeds the action level must also undertake a public education program to inform consumers of ways they can reduce their exposure to potentially high levels of lead in drinking water.
- (14) Copper is a health concern at certain exposure levels. Copper, a reddish-brown metal, is often used to plumb residential and commercial structures that are connected to water distribution systems. Copper contaminating drinking water as a corrosion byproduct occurs as the result of the corrosion of copper pipes that remain in contact with water for a prolonged period of time. Copper is an essential nutrient, but at high doses it has been shown to cause stomach and intestinal distress, liver and kidney damage, and anemia. Persons with Wilson's disease may be at a higher risk of health effects due to copper than the general public. All public water systems to install optimal corrosion control to minimize copper contamination resulting from the corrosion of plumbing materials. Public water systems serving 50,000 people or few er that have copper concentrations below 1.3 parts per million (ppm) in more than 90% of tap water samples are not required to install or improve their treatment. Any water system that exceeds the action level must also monitor their source water to determine whether treatment to remove copper in source water is needed.
- (15) Asbestos fibers greater than 10 micrometers in length are a health concern at certain levels of exposure. Asbestos is a naturally occurring mineral. Most asbestos fibers in drinking w atter are less than 10 micrometers in length and occur in drinking w atter from natural sources and from corroded asbestos-cement pipes in the distribution system. The major uses of asbestos w ere in the production of cements, floor tiles, paper products, paint, and caulking; in transportation-related applications; and in the production of textiles and plastics. Asbestos w as once a popular insulating and fire retardant material. Inhalation studies have shown that various forms of asbestos have produced lung tumors in laboratory animals. The available information on the risk of developing gastrointestinal tract cancer associated with the ingestion of asbestos from drinking w ater is limited. Ingestion of intermediate-range chrysotile asbestos fibers greater than 10 micrometers in length is associated with causing benign tumors in male rats. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans w ho are exposed over long periods of time. The drinking w ater standard for asbestos has been set at 7 million long fibers per liter to reduce the potential risk of cancer or other adverse health effects which have been observed in laboratory animals. Drinking w ater w hich meets the standard is associated w ith little to none of this risk and should be considered safe with respect to asbestos.
- (16) Barium is a health concern at certain levels of exposure. This inorganic chemical occurs naturally in some aquifers that serve as sources of groundwater. It is also used in oil and gas drilling muds, automotive paints, bricks, tiles and jet fuels. It generally gets into drinking water after dissolving from naturally occurring minerals in the ground. This chemical may damage the heart and cardiovascular system, and is associated with high blood pressure in laboratory animals such as rats exposed to high levels during their lifetimes. In humans, it is believed that effects from barium on blood pressure should not occur below 2 parts per million (ppm) in drinking water. The drinking water standard for barium has been set at 2 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to barium.
- (17) Cadmium is a health concern at certain levels of exposure. Food and the smoking of tobacco are common sources of general exposure. This inorganic metal is a contaminant in the metals used to galvanize pipe. It generally gets into water by corrosion of galvanized pipes or by improper waste disposal. This chemical has been shown to damage the kidney in animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Some industrial workers who were exposed to relatively large amounts of this chemical during working careers also suffered damage to the kidney. The drinking water standard for cadmium has been set at 0.005 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to cadmium.

- (18) Chromium is a health concern at certain levels of exposure. This inorganic metal occurs naturally in the ground and is often used in the electroplating of metals. It generally gets into water from runoff from old mining operations and improper waste disposal from plating operations. This chemical has been shown to damage the kidney, nervous system, and the circulatory system of laboratory animals such as rats and mice when the animals are exposed at high levels. Some humans who were exposed to high levels of this chemical suffered liver and kidney damage, dermatitis and respiratory problems. The drinking water standard for chromium has been set at 0.1 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to chromium.
- (19) Mercury is a health concern at certain levels of exposure. This inorganic metal is used in electrical equipment and some water pumps. It usually gets into water as a result of improper waste disposal. This chemical has been shown to damage the kidney of laboratory animals such as rats when the animals are exposed at high levels over their lifetimes. The drinking water standard for mercury has been set at 0.002 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to mercury.
- (20) Nitrate poses an acute health concern at certain levels of exposure. Nitrate is used in fertilizer and is found in sew age and w astes from human and/or farm animals and generally gets into drinking w ater from those activities. Excessive levels of nitrate in drinking w ater have caused serious illness and sometimes death in infants under six months of age. The serious illness in infants is caused because nitrate is converted to nitrite in the body. Nitrite interferes w ith the oxygen carrying capacity of the child's blood. This is an acute disease in that symptoms can develop rapidly in infants. In most cases, health deteriorates over a period of days. Symptoms include shortness of breath and blueness of the skin. Clearly, expert medical advice should be sought immediately if these symptoms occur. The purpose of this notice is to encourage parents and other responsible parties to provide infants w ith an alternate source of drinking w ater. Local and State health authorities are the best source for information concerning alternate sources of drinking w ater for infants. The drinking w ater standard has been set at 10 parts per million (ppm) for nitrate to protect against the risk of these adverse effects. The drinking w ater standard for nitrite has been set at 1 ppm. To allow for the fact that the toxicity of nitrate and nitrite are additive, the standard for the sum of nitrate and nitrite has been established at 10 ppm. Drinking w ater that meets this standard is associated w ith little to none of this risk and is considered safe w ith respect to nitrate.
- (21) Nitrite poses an acute health concern at certain levels of exposure. This inorganic chemical is used in fertilizers and is found in sew age and w astes from humans and/or farm animals and generally gets into drinking w ater as a result of those activities. While excessive levels of nitrite in drinking w ater have not been observed, other sources of nitrite have caused serious illness and sometimes death in infants under six months of age. The serious illness in infants is caused because nitrite interferes with the oxygen carrying capacity of the child's blood. This is an acute disease in that symptoms can develop rapidly. How ever, in most cases, health deteriorates over a period of days. Symptoms include shortness of breath and blueness of the skin. Clearly, expert medical advice should be sought immediately if these symptoms occur. The purpose of this notice is to encourage parents and other responsible parties to provide infants with an alternate source of drinking w ater. The drinking w ater standard at 1 part per million (ppm) for nitrite to protect against the risk of these adverse effects. There is also a set drinking w ater standard for nitrate (converted to nitrite in humans) at 10 ppm and for the sum of nitrate and nitrite at 10 ppm. Drinking w ater that meets this standard is associated with little to none of this risk and is considered safe with respect to nitrite.
- (22) Selenium is a health concern at certain high levels of exposure. Selenium is also an essential nutrient at low levels of exposure. This inorganic chemical is found naturally in food and soils and is used in electronics, photocopy operations, the manufacture of glass, chemicals, drugs, and as a fungicide and a feed additive. In humans, exposure to high levels of selenium over a long period of time has resulted in a number of adverse health effects, including a loss of feeling and control in the arms and legs. The drinking water standard for selenium at 0.05 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to selenium.
- (23) Acrylamide is a health concern at certain levels of exposure. Polymers made from acrylamide are sometimes used to treat w ater supplies to remove particulate contaminants. Acrylamide has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. Sufficiently large doses of acrylamide are known to cause neurological injury. The drinking water standard for acrylamide is using a treatment technique to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. This treatment technique limits the amount of acrylamide in the polymer and the amount of the polymer which may be added to drinking water to remove particulates. Drinking water systems which comply with this treatment technique have little to no risk and are considered safe with respect to acrylamide.
- (24) Alachlor is a health concern at certain levels of exposure. This organic chemical is a widely used pesticide. When soil and climatic conditions are favorable, alachlor may get into drinking water by runoff into surface water or by leaching into groundwater. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for alachlor has been set at 0.002 parts per million (ppm) to reduce the risk of

cancer or other adverse health effects which have been observed in laboratory animals. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to alachlor.

- (25) Aldicarb is a health concern at certain levels of exposure. Aldicarb is a widely used pesticide. Under certain soil and climatic conditions (e.g., sandy soil and high rainfall), aldicarb may leach into groundwater after normal agricultural applications to crops such as potatoes or peanuts or may enter drinking water supplies as a result of surface runoff. This chemical has been shown to damage the nervous system in laboratory animals such as rats and dogs exposed to high levels. The drinking water standard for aldicarb has been set at 0.003 parts per million (ppm) to protect against the risk of adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to aldicarb.
- (26) Aldicarb sulfoxide is a health concern at certain levels of exposure. Aldicarb is a widely used pesticide. Aldicarb sulfoxide in groundw ater is primarily a breakdown product of aldicarb. Under certain soil and climatic conditions (e.g., sandy soil and high rainfall), aldicarb sulfoxide may leach into groundw ater after normal agricultural applications to crops such as potatoes or peanuts or may enter drinking water supplies as a result of surface runoff. This chemical has been shown to damage the nervous system in laboratory animals such as rats and dogs exposed to high levels. The drinking water standard for aldicarb sulfoxide has been set at 0.004 parts per million (ppm) to protect against the risk of adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to aldicarb sulfoxide.
- (27) Aldicarb sulfone is a health concern at certain levels of exposure. Aldicarb is a widely used pesticide. Aldicarb sulfone is formed from the breakdown of aldicarb and is considered for registration as a pesticide under the name aldoxycarb. Under certain soil and climatic conditions (e.g., sandy soil and high rainfall), aldicarb sulfone may leach into groundwater after normal agricultural applications to crops such as potatoes or peanuts or may enter drinking water supplies as a result of surface runoff. This chemical has been shown to damage the nervous system in laboratory animals such as rats and dogs exposed to high levels. The drinking water standard for aldicarb sulfone has been set at 0.002 parts per million (ppm) to protect against the risk of adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to aldicarb sulfone.
- (28))Atrazine is a health concern at certain levels of exposure. This organic chemical is a herbicide. When soil and climatic conditions are favorable, atrazine may get into drinking water by runoff into surface water or by leaching into groundwater. This chemical has been shown to affect offspring of rats and the heart of dogs. The drinking water standard for atrazine has been set at 0.003 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to atrazine.
- (29) Carbofuran is a health concern at certain levels of exposure. This organic chemical is a pesticide. When soil and climatic conditions are favorable, carbofuran may get into drinking water by runoff into surface water or by leaching into groundwater. This chemical has been shown to damage the nervous and reproductive systems of laboratory animals such as rats and mice exposed at high levels over their lifetimes. Some humans who were exposed to relatively large amounts of this chemical during their working careers also suffered damage to the nervous system. Effects on the nervous system are generally rapidly reversible. The drinking water standard for carbofuran has been set at 0.04 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to carbofuran.
- (30) Chlordane is a health concern at certain levels of exposure. This organic chemical is a pesticide used control termites. Chlordane is not very mobile in soils. It usually gets into drinking water after application near water supply intakes or wells. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for chlordane has been set at 0.002 parts per million (ppm) to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to chlordane.
- (31) Dibromochloropropane (DBCP) is a health concern at certain levels of exposure. This organic chemical was once a popular pesticide. When soil and climatic conditions are favorable, dibromochloropropane may get into drinking water by runoff into surface water or by leaching into groundwater. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for DBCP has been set at 0.0002 parts per million (ppm) to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to DBCP.
- (32) o-Dichlorobenzene is a health concern at certain levels of exposure. This organic chemical is used as a solvent in the production of pesticides and dyes. It generally gets into water by improper waste disposal. This chemical has been shown to damage the liver, kidney and the blood cells of laboratory animals such as rats and mice exposed to high levels during their lifetimes. Some industrial workers who were exposed to relatively large amounts of this chemical during working careers also suffered damage to the liver, nervous system, and circulatory system. The drinking water standard for o-dichlorobenzene has been set at 0.6 parts per million (ppm) to protect against

the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to o-dichlorobenzene.

- (33) cis-1,2-Dichloroethylene is a health concern at certain levels of exposure. This organic chemical is used as a solvent and intermediate in chemical production. It generally gets into water by improper waste disposal. This chemical has been shown to damage the liver, nervous system, and circulatory system of laboratory animals such as rats and mice when exposed at high levels over their lifetimes. Some humans who were exposed to relatively large amounts of this chemical also suffered damage to the nervous system. The drinking water standard for cis-1,2-dichloroethylene has been set at 0.07 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to cis-1,2-dichloroethylene.
- (34) trans-1,2-Dichloroethylene is a health concern at certain levels of exposure. This organic chemical is used as a solvent and intermediate in chemical production. It generally gets into water by improper waste disposal. This chemical has been shown to damage the liver, nervous system, and the circulatory system of laboratory animals such as rats and mice when exposed at high levels over their lifetimes. Some humans who were exposed to relatively large amounts of this chemical also suffered damage to the nervous system. The drinking water standard for trans-1,2-dichloroethylene has been set at 0.1 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to trans-1,2-dichloroethylene.
- (35) 1,2-Dichloropropane is a health concern at certain levels of exposure. This organic chemical is used as a solvent and pesticide. When soil and climatic conditions are favorable, 1,2-dichloropropane may get into drinking water by runoff into surface water or by leaching into groundwater. It may also get into drinking water through improper waste disposal. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for 1,2-dichloropropane has been set at 0.005 parts per million (ppm) to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to 1,2-dichloropropane.
- (36) 2,4-D is a health concern at certain levels of exposure. This organic chemical is used as a herbicide and to control algae in reservoirs. When soil and climatic conditions are favorable, 2,4-D may get into drinking water by runoff into surface water or by leaching into groundwater. This chemical has been shown to damage the liver and kidney of laboratory animals such as rats exposed at high levels during their lifetimes. Some humans who were exposed to relatively large amounts of this chemical also suffered damage to the nervous system. The drinking water standard for 2,4-D has been set at 0.07 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to 2,4-D.
- (37) Epichlorohydrin is a health concern at certain levels of exposure. Polymers made from epichlorohydrin are sometimes used in the treatment of water supplies as a flocculent to remove particulates. Epichlorohydrin generally gets into drinking water by improper use of these polymers. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for epichlorohydrin is using a treatment technique to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. This treatment technique limits the amount of epichlorohydrin in the polymer and the amount of the polymer which may be added to drinking water as a flocculent to remove particulates. Drinking water systems which comply with this treatment technique have little to no risk and are considered safe with respect to epichlorohydrin.
- (38) Ethylbenzene is a health concern at certain levels of exposure. This organic chemical is a major component of gasoline. It generally gets into water by improper waste disposal or leaking gasoline tanks. This chemical has been shown to damage the kidney, liver, and nervous system of laboratory animals such as rats exposed to high levels during their lifetimes. The drinking water standard for ethylbenzene has been set at 0.7 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to ethylbenzene.
- (39) Ethylene dibromide (EDB) is a health concern at certain levels of exposure. This organic chemical was once a popular pesticide. When soil and climatic conditions are favorable, EDB may get into drinking water by runoff into surface water or by leaching into groundwater. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for EDB has been set at 0.00005 parts per million (ppm) to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to EDB.

- (40) Heptachlor is a health concern at certain levels of exposure. This organic chemical was once a popular pesticide. When soil and climatic conditions are favorable, heptachlor may get into drinking water by runoff into surface water or by leaching into groundwater. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for heptachlor has been set at 0.0004 parts per million (ppm) to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to heptachlor.
- (41) Heptachlor epoxide is a health concern at certain levels of exposure. This organic chemical was once a popular pesticide. When soil and climatic conditions are favorable, heptachlor epoxide may get into drinking water by runoff into surface water or by leaching into groundwater. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for heptachlor epoxide has been set at 0.0002 parts per million (ppm) to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to heptachlor epoxide.
- (42) Lindane is a health concern at certain levels of exposure. This organic chemical is used as a pesticide. When soil and climatic conditions are favorable, lindane may get into drinking water by runoff into surface water or by leaching into groundwater. This chemical has been shown to damage the liver, kidney, nervous system, and immune system of laboratory animals such as rats, mice and dogs exposed at high levels during their lifetimes. Some humans who were exposed to relatively large amounts of this chemical also suffered damage to the nervous system and circulatory system. The drinking water standard for lindane has been set at 0.0002 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to lindane.
- (43) Methoxychlor is a health concern at certain levels of exposure. This organic chemical is used as a pesticide. When soil and climatic conditions are favorable, methoxychlor may get into drinking water by runoff into surface water or by leaching into groundwater. This chemical has been shown to damage the liver, kidney, nervous system, and reproductive system of laboratory animals such as rats exposed at high levels during their lifetimes. It has also been shown to produce growth retardation in rats. The drinking water standard for methoxychlor has been set at 0.04 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to methoxychlor.
- (44) Monochlorobenzene is a health concern at certain levels of exposure. This organic chemical is used as a solvent. It generally gets into water by improper waste disposal. This chemical has been shown to damage the liver, kidney and nervous system of laboratory animals such as rats and mice exposed to high levels during their lifetimes. The drinking water standard for monochlorobenzene has been set at 0.1 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to monochlorobenzene.
- (45) Polychlorinated biphenyls (PCBs) are a health concern at certain levels of exposure. These organic chemicals were once widely used in electrical transformers and other industrial equipment. They generally get into drinking water by improper waste disposal or leaking electrical industrial equipment. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for PCBs has been set at 0.0005 parts per million (ppm) to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to PCBs.
- (46) Pentachlorophenol is a health concern at certain levels of exposure. This organic chemical is used as a wood preservative, herbicide, disinfectant, and defoliant. It generally gets into drinking water by runoff into surface water or leaching into groundwater. This chemical has been shown to produce adverse reproductive effects and to damage the liver and kidneys of laboratory animals such as rats exposed to high levels during their lifetimes. Some humans who were exposed to relatively large amounts of this chemical also suffered damage to the liver and kidneys. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed to high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for pentachlorophenol has been set at 0.001 parts per million (ppm) to protect against the risk of cancer or other adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to pentachlorophenol.
- (47) Styrene is a health concern at certain levels of exposure. This organic chemical is commonly used to make plastics and is sometimes a component of resins used for drinking w ater treatment. Styrene may get into drinking w ater from improper w aste disposal. This chemical has been shown to damage the liver and nervous system in laboratory animals w hen exposed at high levels during their lifetimes. The drinking w ater standard for styrene has been set at 0.1 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking w ater that meets this standard is associated w ith little to none of this risk and is considered safe w ith respect to styrene.

- (48) Tetrachloroethylene is a health concern at certain levels of exposure. This organic chemical has been a popular solvent, particularly for dry cleaning. It generally gets into drinking w ater by improper w aste disposal. This chemical has been shown to cause cancer in laboratory animals such as rats and mice w hen the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans w ho are exposed over long periods of time. The drinking w ater standard for tetrachloroethylene has been set at 0.005 parts per million (ppm) to reduce the risk of cancer or other adverse health effects w hich have been observed in laboratory animals. Drinking w ater that meets this standard is associated w ith little to none of this risk and is considered safe w ith respect to tetrachloroethylene.
- (49) Toluene is a health concern at certain levels of exposure. This organic chemical is used as a solvent and in the manufacture of gasoline for airplanes. It generally gets into water by improper waste disposal or leaking underground storage tanks. This chemical has been shown to damage the kidney, nervous system, and circulatory system of laboratory animals such as rats and mice exposed to high levels during their lifetimes. Some industrial workers who were exposed to relatively large amounts of this chemical during working careers also suffered damage to the liver, kidney and nervous system. The drinking water standard for toluene has been set at 1 part per million (ppm) to protect against the risk of adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to toluene.
- (50) Toxaphene is a health concern at certain levels of exposure. This organic chemical was once a pesticide widely used on cotton, corn, soybeans, pineapples and other crops. When soil and climatic conditions are favorable, toxaphene may get into drinking water by runoff into surface water or by leaching into groundwater. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for toxaphene has been set at 0.003 parts per million (ppm) to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to toxaphene.
- (51) 2,4,5-TP is a health concern at certain levels of exposure. This organic chemical is used as a herbicide. When soil and climatic conditions are favorable, 2,4,5-TP may get into drinking w ater by runoff into surface w ater or by leaching into groundw ater. This chemical has been shown to damage the liver and kidney of laboratory animals such as rats and dogs exposed to high levels during their lifetimes. Some industrial w orkers w ho were exposed to relatively large amounts of this chemical during w orking careers also suffered damage to the nervous system. The drinking w ater standard for 2,4,5-TP has been set at 0.05 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking w ater that meets this standard is associated w ith little to none of this risk and is considered safe w ith respect to 2,4,5-TP.
- (52) Xylenes is a health concern at certain levels of exposure. This organic chemical is used in the manufacture of gasoline for airplanes and as a solvent for pesticides, and as a cleaner and degreaser of metals. It usually gets into water by improper waste disposal. This chemical has been shown to damage the liver, kidney and nervous system of laboratory animals such as rats and dogs exposed to high levels during their lifetimes. Some humans who were exposed to relatively large amounts of this chemical also suffered damage to the nervous system. The drinking water standard for xylene has been set at 10 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water that meets this standard is associated with little to none of this risk and is considered safe with respect to xylene.
- (53) Antimony is a health concern at certain levels of exposure. This inorganic chemical occurs naturally in soils, groundwater and surface waters and is often used in the flame retardant industry. It is also used in ceramics, glass, batteries, fireworks and explosives. It may get into drinking water through natural weathering of rock, industrial production, municipal waste disposal or manufacturing processes. This chemical has been shown to decrease longevity, and altered blood levels of cholesterol and glucose in laboratory animals such as rats exposed to high levels during their lifetimes. The drinking water standard for antimony has been set at 0.006 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to antimony.
- (54) Beryllium is a health concern at certain levels of exposure. This inorganic metal occurs naturally in soils, groundwater and surface waters and is often used in electrical equipment and electrical components. It generally gets into water from runoff from mining operations, discharge from processing plants and improper waste disposal. Beryllium compounds have been associated with damage to the bones and lungs and induction of cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. There is limited evidence to suggest that beryllium may pose a cancer risk via drinking water exposure. Therefore, the health assessment is based on noncancer effects with an extra uncertainty factor to account for possible carcinogenicity. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for beryllium has been set at 0.004 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to beryllium.

- (55) Cyanide is a health concern at certain levels of exposure. This inorganic chemical is used in electroplating, steel processing, plastics, synthetic fabrics and fertilizer products. It usually gets into water as a result of improper waste disposal. This chemical has been shown to damage the spleen, brain and liver of humans fatally poisoned with cyanide. The drinking water standard for cyanide has been set at 0.2 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to cyanide.
- (56) Nickel poses a health concern at certain levels of exposure. This inorganic metal occurs naturally in soils, groundwater and surface waters and is often used in electroplating, stainless steel and alloy products. It generally gets into water from mining and refining operations. This chemical has been shown to damage the heart and liver in laboratory animals when the animals are exposed to high levels over their lifetimes. The drinking water standard has been set at 0.1 parts per million (ppm) for nickel to protect against the risk of these adverse effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to nickel.
- (57) Thallium is a health concern at certain high levels of exposure. This inorganic metal is found naturally in soils and is used in electronics, pharmaceuticals, and the manufacture of glass and alloys. This chemical has been shown to damage the kidney, liver, brain and intestines of laboratory animals when the animals are exposed at high levels over their lifetimes. The drinking water standard for thallum has been set at 0.002 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to thallium.
- (58) Benzo[a]pyrene is a health concern at certain levels of exposure. Cigarette smoke and charbroiled meats are common source of general exposure. The major source of benzo[a]pyrene in drinking w ater is the leaching from coal tar lining and sealants in w ater storage tanks. This chemical has been shown to cause cancer in animals such as rats and mice w hen the animals are exposed at high levels. The drinking w ater standard for benzo[a]pyrene at 0.0002 parts per million (ppm) to protect against the risk of cancer. Drinking w ater w hich meets this standard is associated w ith little to none of this risk and should be considered safe w ith respect to benzo[a]pyrene.
- (59) Dalapon is a health concern at certain levels of exposure. This organic chemical is a widely used herbicide. It may get into drinking water after application to control grasses in crops, drainage ditches and along railroads. This chemical has been shown to cause damage to the kidney and liver in laboratory animals when the animals are exposed to high levels over their lifetimes. The drinking water standard for dalapon has been set at 0.2 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to dalapon.
- (60) Dichloromethane is a health concern at certain levels of exposure. This organic chemical is a widely used solvent. It is used in the manufacture of paint remover, as a metal degreaser and as an aerosol propellant. It generally gets into drinking water after improper discharge of waste disposal. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for dichloromethane has been set at 0.005 parts per million (ppm) to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to dichloromethane.
- (61) Di (2-ethylhexyl)adipate is a health concern at certain levels of exposure. Di(2-ethylhexyl)adipate is a widely used plasticizer in a variety of products, including synthetic rubber, food packaging materials and cosmetics. It may get into drinking water after improper waste disposal. This chemical has been shown to damage liver and testes in laboratory animals such as rats and mice exposed to high levels. The drinking water standard for di(2-ethylhexyl)adipate has been set at 0.4 parts per million (ppm) to protect against the risk of adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to di(2-ethylhexyl)adipate.
- (62) Di(2-ethylhexyl)phthalate is a health concern at certain levels of exposure. Di(2-ethylhexyl)phthalate is a widely used plasticizer, which is primarily used in the production of polyvinyl chloride (PVC) resins. It may get into drinking water after improper waste disposal. This chemical has been shown to cause cancer in laboratory animals such as rats and mice exposed to high levels over their lifetimes. The drinking water standard for di(2-ethylhexyl)phthalate has been set at 0.004 parts per million (ppm) to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to di(2-ethylhexyl)phthalate.
- (63) Dinoseb is a health concern at certain levels of exposure. Dinoseb is a widely used pesticide and generally gets into drinking water after application on orchards, vineyards and other crops. This chemical has been shown to damage the thyroid and reproductive organs in laboratory animals such as rats exposed to high levels. The drinking water standard for dinoseb has been set at 0.007 parts per million (ppm) to protect against the risk of adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to dinoseb.

- (64) Diquat is a health concern at certain levels of exposure. This organic chemical is a herbicide used to control terrestrial and aquatic weeds. It may get into drinking water by runoff into surface water. This chemical has been shown to damage the liver, kidney and gastrointestinal tract and causes cataract formation in laboratory animals such as dogs and rats exposed at high levels over their lifetimes. The drinking water standard for diquat has been set at 0.02 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to diquat.
- (65) Endothall is a health concern at certain levels of exposure. This organic chemical is a herbicide used to control terrestrial and aquatic weeds. It may get into water by runoff into surface water. This chemical has been shown to damage the liver, kidney, gastrointestinal tract and reproductive system of laboratory animals such as rats and mice exposed at high levels over their lifetimes. The drinking water standard for endothall has been set at 0.1 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to endothall.
- (66) Endrin is a health concern at certain levels of exposure. This organic chemical is a pesticide no longer registered for use in the United States. How ever, this chemical is persistent in treated soils and accumulates in sediments and aquatic and terrestrial biota. This chemical has been shown to cause damage to the liver, kidney and heart in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. The drinking water standard for endrin has been set at 0.002 parts per million (ppm) to protect against the risk of these adverse health effects which have been observed in laboratory animals. Drinking water that meets this standard is associated with little to none of this risk and should be considered safe with respect to endrin.
- (67) Glyphosate is a health concern at certain levels of exposure. This organic chemical is a herbicide used to control grasses and weeds. It may get into drinking water by runoff into surface water. This chemical has been shown to cause damage to the liver and kidneys in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. The drinking water standard for glyphosate has been set at 0.7 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to glyphosate.
- (68) Hexachlorobenzene is a health concern at certain levels of exposure. This organic chemical is produced as an impurity in the manufacture of certain solvents and pesticides. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed to high levels during their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for hexachlorobenzene has been set at 0.001 parts per million (ppm) to protect against the risk of cancer and other adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to hexachlorobenzene.
- (69) Hexachlorocyclopentadiene is a health concern at certain levels of exposure. This organic chemical is used as an intermediate in the manufacture of pesticides and flame retardants. It may get into water by discharge from production facilities. This chemical has been shown to damage the kidney and the stomach of laboratory animals when exposed at high levels over their lifetimes. The drinking water standard for hexachlorocyclopentadiene has been set at 0.05 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to hexachlorocyclopentadiene.
- (70) Oxamyl is a health concern at certain levels of exposure. This organic chemical is used as a pesticide for the control of insects and other pests. It may get into drinking water by runoff into surface water or leaching into groundwater. This chemical has been shown to damage the kidneys of laboratory animals such as rats when exposed at high levels over their lifetimes. The drinking water standard for oxamyl has been set at 0.2 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to oxamyl.
- (71) Picloram is a health concern at certain levels of exposure. This organic chemical is used as a pesticide for broadleaf wieed control. It may get into drinking water by runoff into surface water or leaching into groundwater as a result of pesticide application and improper waste disposal. This chemical has been shown to cause damage to the kidneys and liver in laboratory animals such as rats when the animals are exposed at high levels over their lifetimes. The drinking water standard for picloram has been set at 0.5 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to picloram.
- (72) Simazine is a health concern at certain levels of exposure. This organic chemical is a herbicide used to control annual grasses and broadleaf weeds. It may leach into groundwater or runs off into surface water after application. This chemical may cause cancer in laboratory animals such as rats and mice exposed at high levels during their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for simazine has been set at 0.004 parts per million (ppm) to reduce the risk of cancer or other adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to simazine.

- (73) 1,2,4-Trichlorobenzene is a health concern at certain levels of exposure. This organic chemical is used as a dye carrier and as a precursor in herbicide manufacture. It generally gets into drinking water by discharges from industrial activities. This chemical has been shown to cause damage to several organs, including the adrenal glands. The drinking water standard for 1,2,4-trichlorobenzene has been set at 0.07 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to 1,2,4-trichlorobenzene.
- (74) 1,1,2-Trichloroethane is a health concern at certain levels of exposure. This organic chemical is an intermediate in the production of 1,1-dichloroethylene. It generally gets into water by industrial discharge of wastes. This chemical has been shown to damage the kidney and liver of laboratory animals such as rats exposed to high levels during their lifetimes. The drinking water standard for 1,1,2-trichloroethane has been set at 0.005 parts per million (ppm) to protect against the risk of these adverse health effects. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to 1,1,2-trichloroethane.
- (75) 2,3,7,8-TCDD (Dioxin). is a health concern at certain levels of exposure. This organic chemical is an impurity in the production of some pesticides. It may get into drinking water by industrial discharge of wastes. This chemical has been shown to cause cancer in laboratory animals such as rats and mice when the animals are exposed at high levels over their lifetimes. Chemicals that cause cancer in laboratory animals also may increase the risk of cancer in humans who are exposed over long periods of time. The drinking water standard for dioxin has been set at 0.00000003 parts per million (ppm) to reduce the risk of cancer or other adverse health effects which have been observed in laboratory animals. Drinking water which meets this standard is associated with little to none of this risk and should be considered safe with respect to dioxin.